Inorganic Chemistry
including bioinorganic chemistry
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FIGURE CAPTIONS

Figure S1. Circular dichroism of 10 μM Δ-Rh (solid) and 10 μM Λ-Rh (dashed) in (a) the absence of $[poly(dA\text{-}dT)]_2$ and in (b) the presence of $[poly(dA\text{-}dT)]_2$ (0.25 mM bp). Spectra were recorded in a 5 mM sodium phosphate, 50 mM NaCl, pH 7.0 buffer. (c) Figure reproduced from reference 13 with permission.

Figure S2. Expanded TMe and H2',2" vs. aromatic region of the 2D-NOESY Contours in 90:10 H_2O:D_2O for (counterclockwise from top left) D1/D2 alone, Rh'+D1/D2, Ru+D1/D2, and Rh'+Ru+D1/D2. Solutions were 0.5 mM in DNA duplex, 0.45 mM in Rh' and 0.45 mM in Ru in 10 mM sodium phosphate, pH 7.0.

Figure S3. 2D-NOESY Contour in 90:10 H_2O:D_2O for D1/D2 alone. Solutions were 0.5 mM in DNA duplex in 10 mM sodium phosphate, pH 7.0.

Figure S4. 2D-NOESY Contour in 90:10 H_2O:D_2O for Rh'+D1/D2. Solutions were 0.5 mM in DNA duplex and 0.45 mM in Rh', 10 mM sodium phosphate, pH 7.0.

Figure S5. 2D-NOESY Contour in 90:10 H_2O:D_2O for Ru+D1/D2. Solutions were 0.5 mM in DNA duplex, 0.45 mM in Ru, 10 mM sodium phosphate, pH 7.0.

Figure S6. 2D-NOESY Contour in 90:10 H_2O:D_2O for Rh'+Ru+D1/D2. Solutions were 0.5 mM in DNA duplex, 0.45 mM in Rh' and 0.45 mM in Ru in 10 mM sodium phosphate, pH 7.0.

Figure S1a

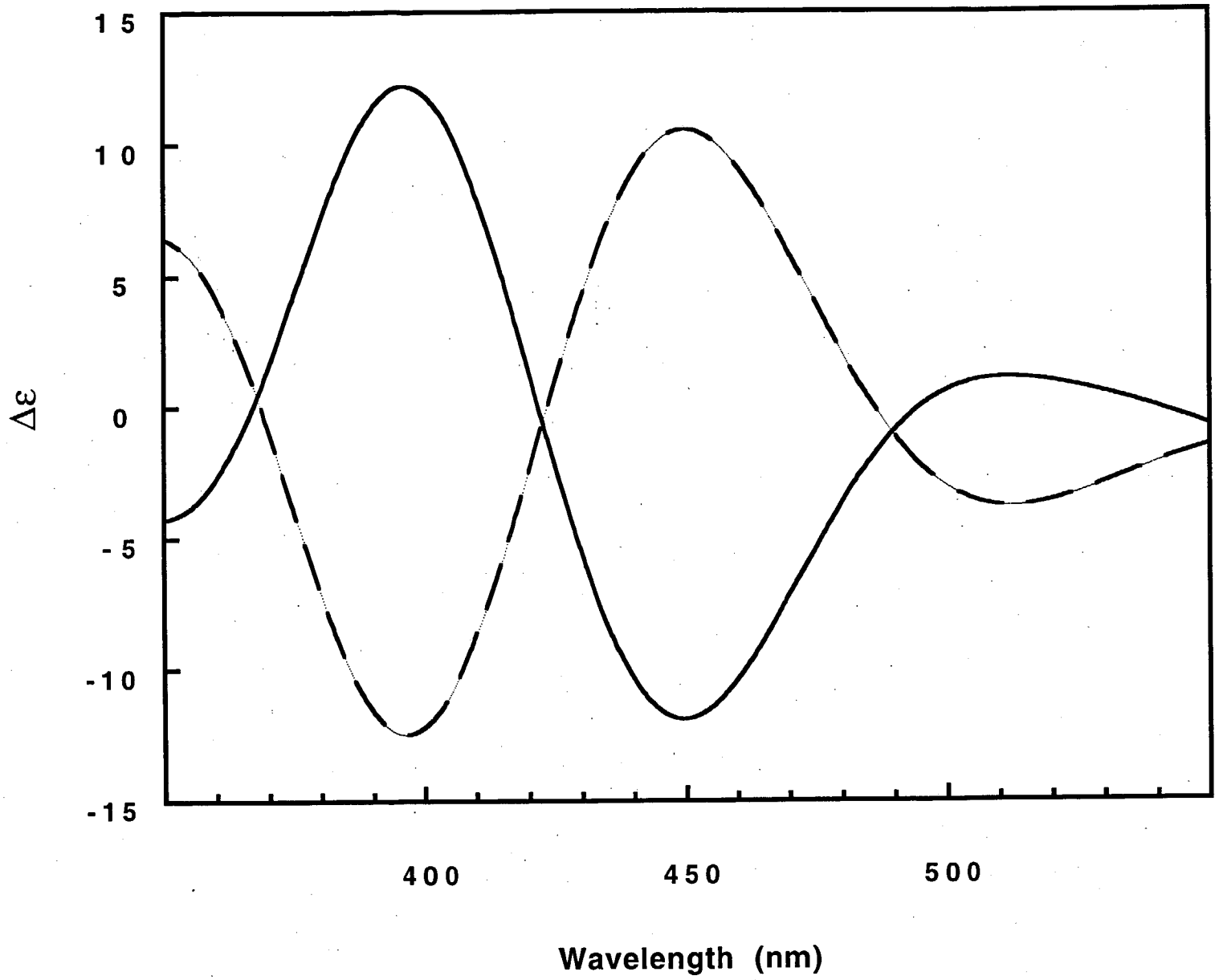

Figure S1b

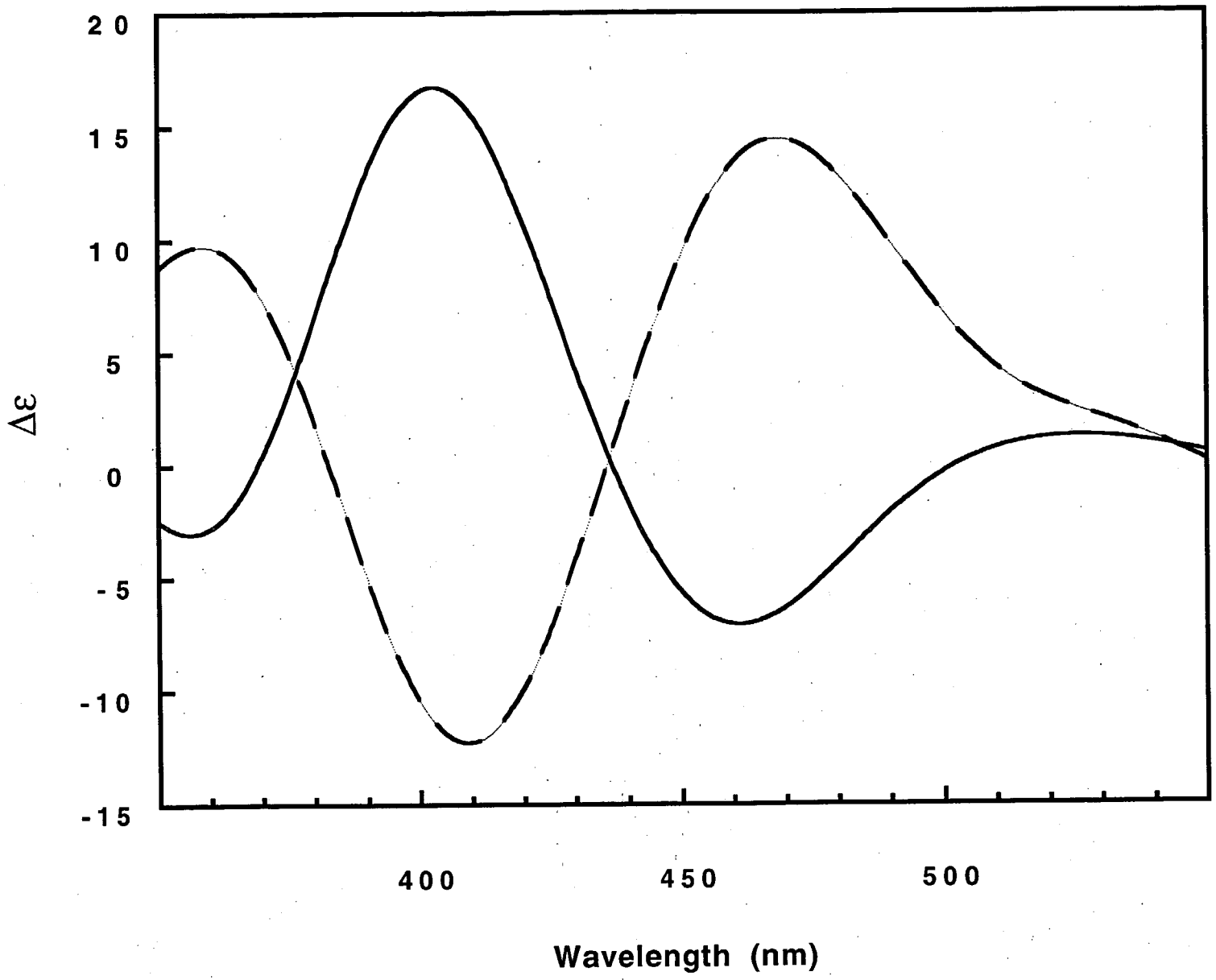

Figure S1c

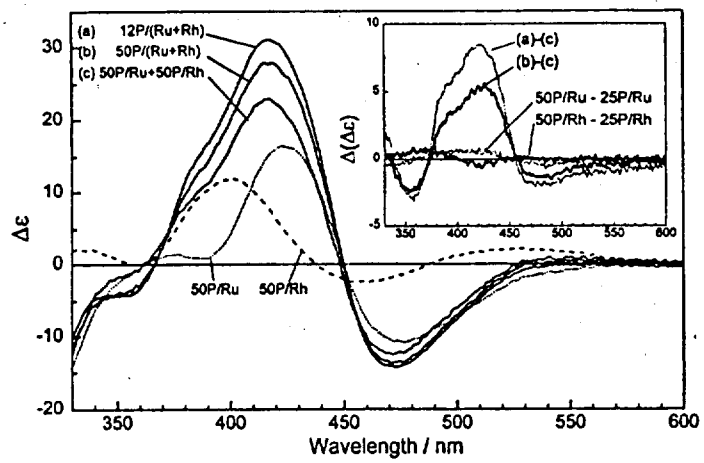

Figure 1. Circular dichroism spectra showing short-distance interactions between Δ-$[Ru(phen)_2dppz]^{2+}$ (RU) and Δ-$[Rh(phi)_2bipy]^{3+}$ (RH) at low DNA-binding densities. (a) 12P/(Ru + Rh) (solid line): Spectrum of Δ-RU (10 μM) and Δ-RH (10 μM) in the presence of $[poly(dA-dT)]_2$ (AT, 120 μM nucleotides). (b) 50P/(Ru + Rh) (solid line): Spectrum of Δ-RU (10 μM) and Δ-RH (10 μM) in the presence of AT (500 μM nucleotides). 50P/Ru (dotted line): Spectrum of Δ-RU (10 μM) in the presence of AT (500 μM nucleotides). 50P/Rh (dashed line): Spectrum of Δ-RH (10 μM) in the presence of AT (500 μM nucleotides). (c) 50P/Ru + 50P/Rh (solid line): Sum of the spectra 50P/Ru and 50P/Rh. Inset shows the difference spectra a−c (dotted line) and b−c (solid line) and the difference spectrum of Δ-RU (10 μM) in the presence of different concentrations of AT (500 and 250 μM, dotted line) and the difference spectrum of Δ-RH (10 μM) under the same conditions (solid line). The circular dichroism has been normalized to molar differential absorptivity ($\Delta\epsilon$).

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Figure S2.

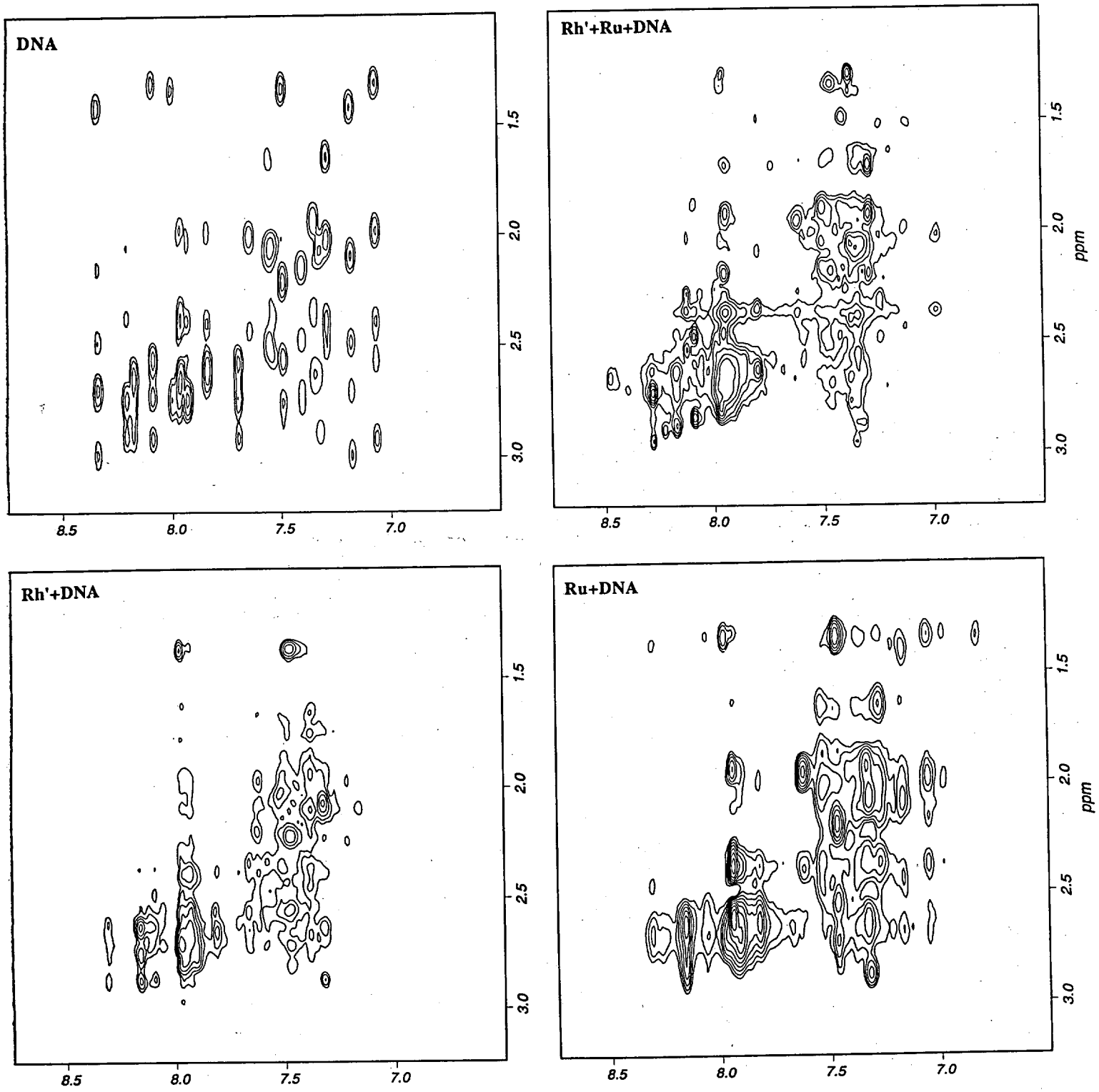
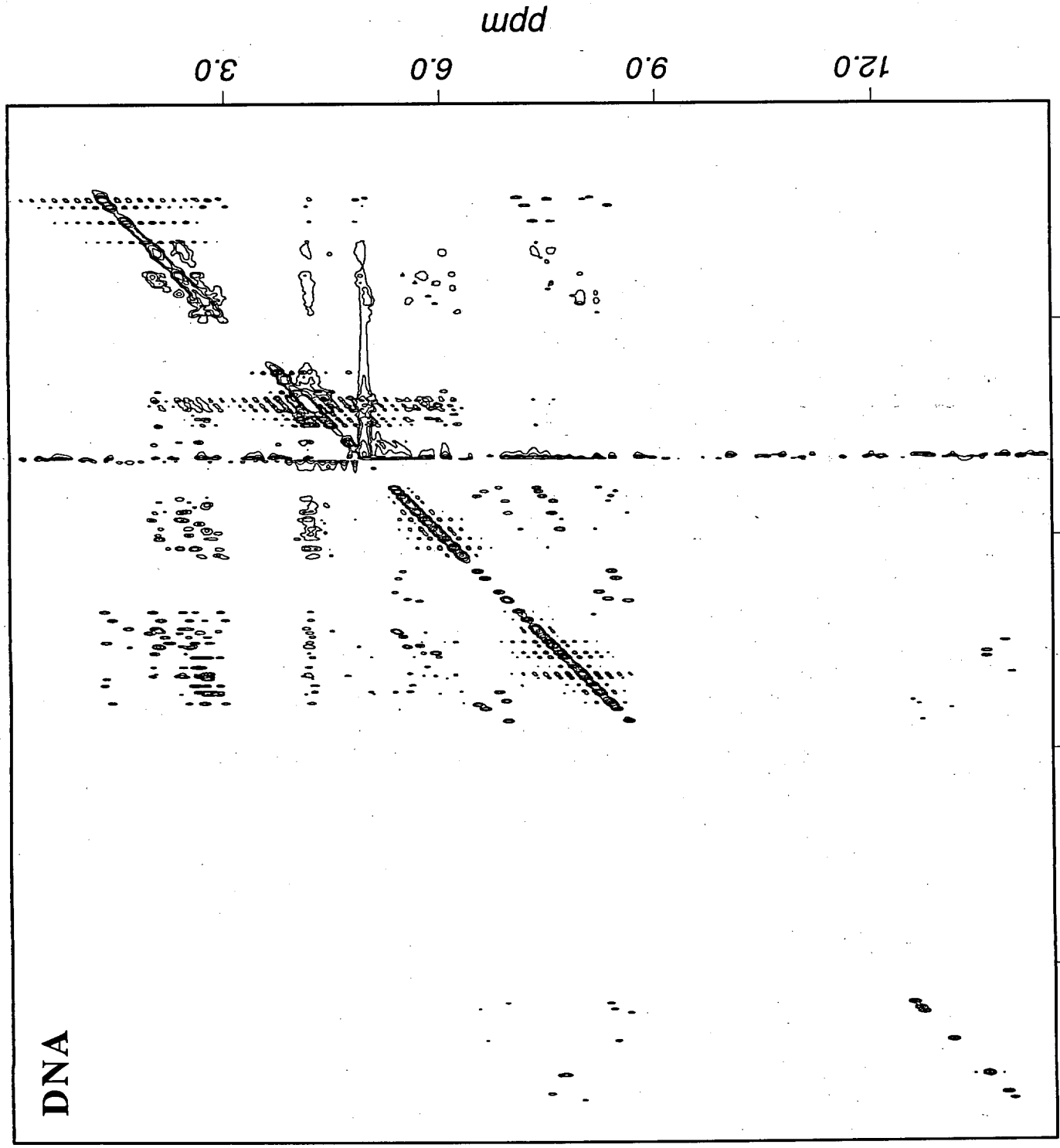


Figure S3.



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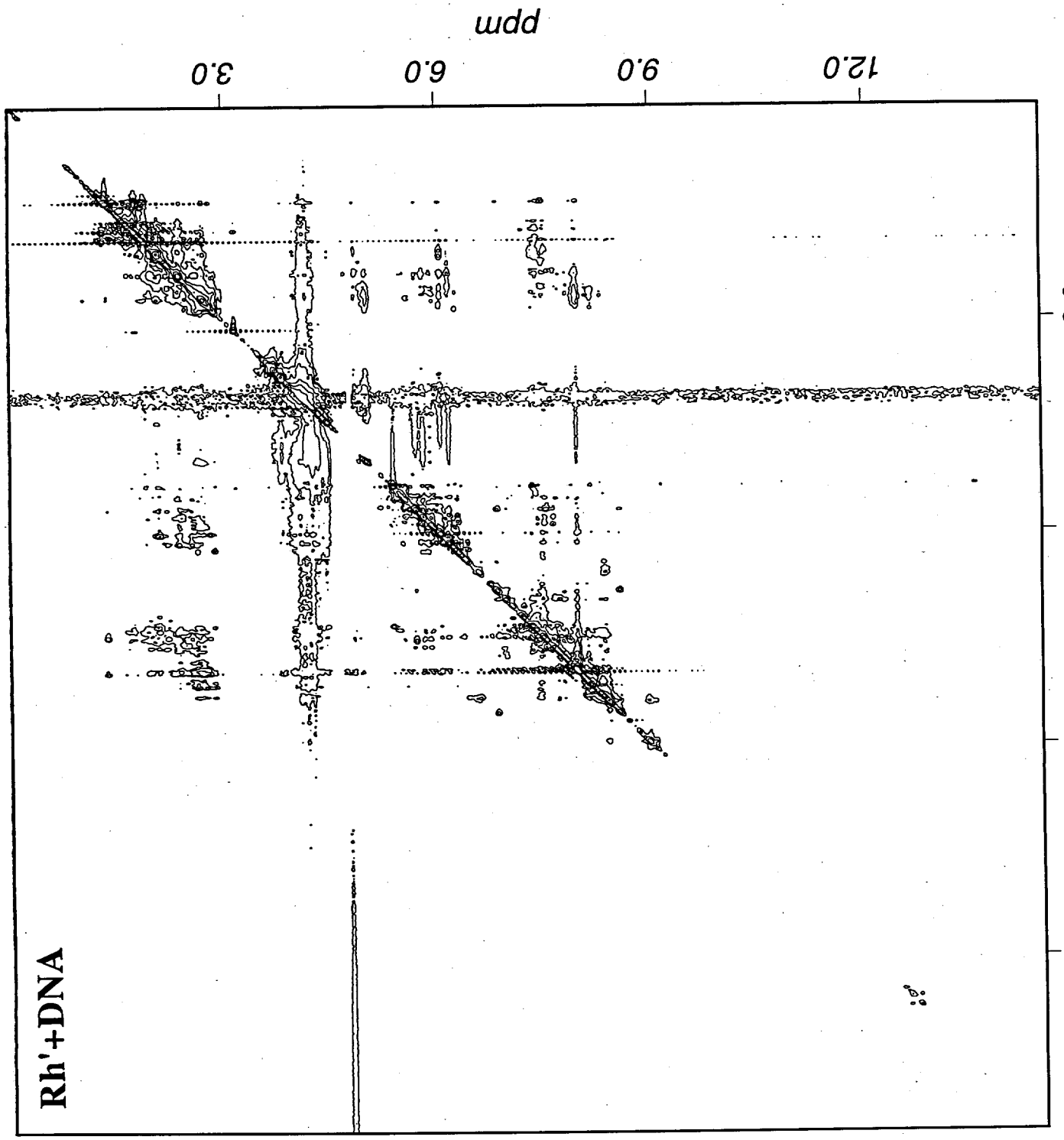

Figure S5.

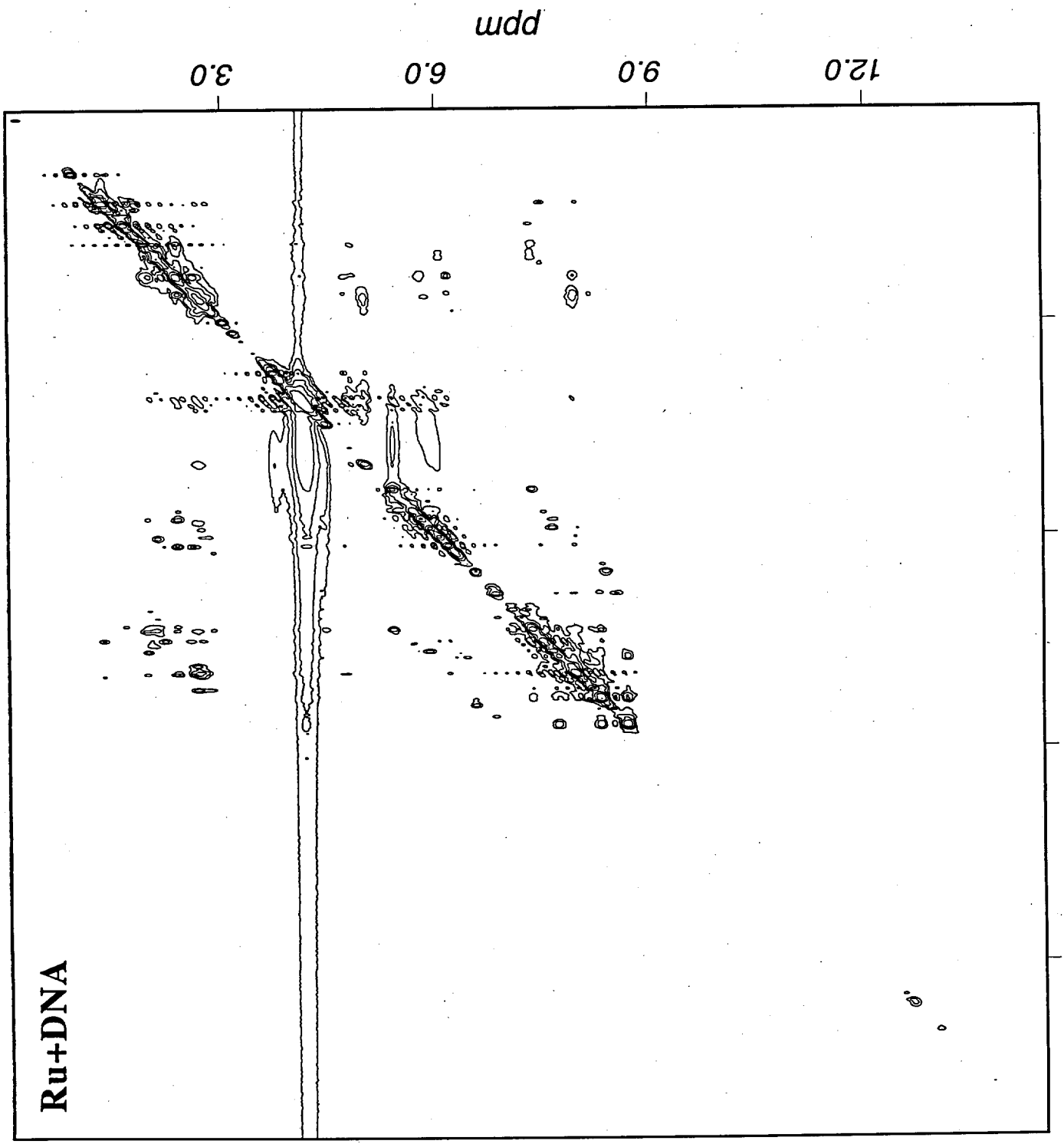

Figure S6.